

KTCTYEGNGHFYRGKASTDTMGRPCLPWN SATVLQQTYHAHRSDALQLGL  
GKHN YCRNPDNRRRPWCYVQVGLKPLVQECMVHDCADGK

SNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKS

SNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKSKT  
CYEGNGHFYRGKASTDTMGRPCLPWNSATVLQQTYHAHRSDALQLGLGK  
HNYCRNPDNRRRPWCYVQVGLKPLVQECMVHDCADGKKPSSPPEELKFQ  
CGQKTLRPRFKIIGGEFTTIENQPWFAAIYRRHRGGSVTYVCGGSLISP  
CWVISATHCFIDYPKKEDIYVYLGRSRLNSNTQGEMKFEVENLILHKDY  
SADTLAHHNDIALLLKIRSKEGRCAQPSRTIQTI CLPSMYNDPQFGTSCE  
ITGFGKENSTDYLYPEQLKMTVVKLISHRECQQPHYYGSEVTTKMLCAA  
DPQWKTDSCQGDSSGGLVCSLQGRMTLTGIVSWGRCALKDKPGVYTRV  
SHFLPWIRSHTKEENGLAL

SNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKSKT  
CYEGNGHFYRGKASTDTMGRPCLPWNSATVLQQTYHAHRSDALQLGLGK  
HNYCRNPDNRRRPWCYVOVGLKPLVQECMVHDCADGK

KPSSPPEELKFQCGQKTLRPRFKIIGGEFTTIENTQPWFAAIYRRHRGGS  
VTYVCGGSLISPCWVISATHCFIDYPKKEDIIVYLGRSRLNSNTQGEMK  
FEVENLILHKDYSADTLAHHNDIALLKIRSKEGRCAQPSRTIQTICLPS  
MYNDPQFGTSCEITGFGKENSTDYLYPEQLKMTVVKLISHRECQQPHY  
YGSEVTTKMLCAADPQWKTDSCQGDGGPLVCSLQGRMTLTGIVSWGRC  
ALKDKPGVYTRVSHFLPWIRSHTEENGLAL

SNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKSKT  
CYEGNGHFYRGKASTDTMGRPCLPWNSATVLQQTYHAHRSDALQLGLGK  
HNYCRNPDNRRRPWCYVQVGLKPLVQECMVHDCADGK//LKFQCGQKTL  
RPRFKIIGGEFTTIENQPWFAAIYRRHRGGSVTYVCGGLISPCWVISA  
THCFIDYPKKEDYIVYLGRSRLNSNTQGEMKFEVENLILHKDYSADTLA  
HHNDIALLLKIRSKEGRCAQPSRTIQTIICLPSMYNDPQFGTSCEITGFGK  
ENSTDYLYPEQLKMTVVKLI SHRECQOPHYYGSEVTTKMLCAADPQWKT  
DSCQGDSSGGLVCSLQGRMTLTGIVSWGRGCALKDKPGVYTRVSHFLPW  
IRSHTKEENGLAL

**FIG. 1G**

SNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKS//  
KPSSPPEELKFQCGQKTLRPRFKIIGGEFTTIENQPWFAAIYRRHRGGS  
VTYVCGGSLISPCWVISATHCFIDYPKKEDIIVYLGRSRLNSNTQGEMK  
FEVENLILHKDYSADTLAHHNDIALLKIRSKEGRCAQPSRTIQTICLPS  
MYNDPQFGTSCEITGFGKENSTDYLYPEQLKMTVVKLISHRECQQPHY  
Y GSEVTTKMLCAADPQWKTDSCQGDGGPLVCSLQGRMTLTGIVSWGRGC  
ALKDKPGVYTRVSHFLPWIRSHSTKEENGLAL

**FIG. 1H**

SNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKSKT  
CYEGNGHFYRGKASTDTMGRPCLPWNSATVLQQTYHAHRSDALQLGLGK  
HNYCRNPDNRRRPWCYVQVGLKPLVQECMVHDCADGKKPSSPPEE

**FIG. 1I**

KTCYEGNGHFYRGKASTDTMGRPCLPWNSATVLQQTYHAHRSDALQLGL  
GKHNYCRNPDNRRRPWCYVQVGLKPLVQECMVHDCADGKKPSSPPEE

**FIG. 1J**

aaaacctgctatgaggggaatggtcacttttaccgaggaaaggccagca  
ctgacaccatgggcccggccctgcctgccctggaactctgccactgtcct  
tcagcaaacgtaccatgcccacagatctgatgctcttcagctgggcctg  
gggaaacataattactgcaggaacccagacaaccggaggcgaccctggt  
gctatgtgacaggtgggcctaaagccgcttgtccaagagtgcattggtgca  
tgactgcgacagatggaaaa

**FIG. 1K**

agcaatgaacttcatcaagttccatcgaactgtgactgtctaaatggag  
gaacatgtgtgtccaacaagtacttctccaacattcactggtgcaactg  
cccaaagaaattcggagggcagcactgtgaaatagataagtca

**FIG. 1L**

agcaatgaacttcatcaagttccatcgaactgtgactgtctaaatggag  
 gaacatgtgtgtccaacaagtacttctccaacattcactggtgcaactg  
 cccaaagaaattcggagggcagcactgtgaaatagataagtcaaaaacc  
 tgctatgaggggaatggtcacttttaccgaggaaaggccagcactgaca  
 ccatgggcccggccctgcctgccctggaactctgccactgtccttcagca  
 aacgtaccatgcccacagatctgatgctcttcagctgggcctggggaaa  
 cataattactgcaggaaccagacaaccggaggcgaccctggtgctatg  
 tgcaggtgggcctaaagccgcttgtccaagagtgcattggtgcatgactg  
 cgcagatggaaaaagccctcctctcctccagaagaattaaaatttcag  
 tgtggccaaaagactctgagggcccgctttaagattattgggggagaat  
 tcaccaccatcgagaaccagccctggtttgcggccatctacaggaggca  
 ccgggggggctctgtcacctacgtgtgtggaggcagcctcatcagccct  
 tgctgggtgatcagcgccacacactgcttcattgattacccaaagaagg  
 aggactacatcgtctacctgggtcgctcaaggcttaactccaacacgca  
 aggggagatgaagtttgaggtggaaaacctcatcctacacaaggactac  
 agcgtgacacgcttgctcaccacaacgacattgccttgctgaagatcc  
 gttccaaggagggcaggtgtgctgcagccatcccggactatacagaccat  
 ctgcctgccctcgatgtataacgatccccagtttggcacaagctgtgag  
 atcactggctttggaaaagagaattctaccgactatctctatccggagc  
 agctgaaaatgactgttgtgaagctgatttcccaccgggagtgctcagca  
 gccccactactacggctctgaagtcaccaccaaatactatgtgctgct  
 gacccccaatggaaaacagattcctgccaggagactcagggggacccc  
 tcgtctgttccctccaaggccgcatgactttgactggaattgtgagctg  
 gggccgtggatgtgccctgaaggacaagccaggcgtctacacgagagtc  
 tcacacttcttaccctggatccgcagtcacaccaaggaagagaatggcc  
 tggccctctga

**FIG. 1M**

agcaatgaacttcatcaagttccatcgaactgtgactgtctaaatggag  
 gaacatgtgtgtccaacaagtacttctccaacattcactggtgcaactg  
 cccaaagaaattcggagggcagcactgtgaaatagataagtcaaaaacc  
 tgctatgaggggaatggtcacttttaccgaggaaaggccagcactgaca  
 ccatgggcccggccctgcctgccctggaactctgccactgtccttcagca  
 aacgtaccatgcccacagatctgatgctcttcagctgggcctggggaaa  
 cataattactgcaggaaccagacaaccggaggcgaccctggtgctatg  
 tgcaggtgggcctaaagccgcttgtccaagagtgcattggtgcatgactg  
 cgcagatggaaaa

**FIG. 1N**

aagccctcctctcctccagaagaattaaaatttcagtgtggccaaaaga  
ctctgaggccccgctttaagattattgggggagaattcaccaccatcga  
gaaccagccctgggtttgcggccatctacaggaggcaccgggggggctct  
gtcacctacgtgtgtggaggcagcctcatcagcccttgctgggtgatca  
gcgccacacactgcttcattgattacccaaagaaggaggactacatcgt  
ctacctgggtcgctcaaggcttaactccaacacgcaaggggagatgaag  
tttgaggtggaaaacctcatcctacacaaggactacagcgctgacacgc  
ttgctcaccacaacgacattgccttgctgaagatccgttccaaggaggg  
caggtgtgcgagccatcccggactatacagaccatctgcctgccctcg  
atgtataacgatccccagtttggcacaagctgtgagatcactggctttg  
gaaaagagaattctaccgactatctctatccggagcagctgaaaatgac  
tgttgtgaagctgatttcccaccgggagtggtcagcagccccactactac  
ggctctgaagtcaccacccaaaatgctatgtgctgctgacccccaatgga  
aaacagattcctgccaggaggagactcagggggacccctcgctctgttcct  
ccaaggccgcatgactttgactggaattgtgagctggggccgtggatgt  
gccctgaaggacaagccaggcgtctacacgagagtctcacacttcttac  
cctggatccgcagtcacaccaaggaagagaatggcctggccctctga

FIG. 1N "GGGGG"

**FIG. 10**

agcaatgaacttcatcaagttccatcgaactgtgactgtctaaatggag  
gaacatgtgtgtccaacaagtacttctccaacattcactgggtgcaactg  
cccaaagaaattcggagggcagcactgtgaaatagataagtcaaaaacc  
tgctatgaggggaatggtcacttttaccgaggaaaggccagcactgaca  
ccatgggcccggccctgcctgccctggaactctgccactgtccttcagca  
aacgtaccatgcccacagatctgatgctcttcagctgggcctggggaaa  
cataattactgcaggaacccagacaaccggaggcgaccctgggtgctatg  
tgcaggtgggcctaaagccgcttggtccaagagtgcacgggtgcatgactg  
cgcagatggaaaattaaaatttcagtgtggccaaaagactctgaggccc  
cgctttaagattattgggggagaattcaccaccatcgagaaccagccct  
ggtttgccggccatctacaggaggcaccgggggggctctgtcacctacgt  
gtgtggaggcagcctcatcagcccttgctgggtgatcagcgccacacac  
tgcttcattgattacccaaagaaggaggactacatcgtctacctgggtc  
gctcaaggcttaactccaacacgcaaggggagatgaagtttgaggtgga  
aaacctcatcctacacaaggactacagcgctgacacgcttgctcaccac  
aacgacattgccttgctgaagatccgttccaaggagggcaggtgtgctgc  
agccatcccggactatacagaccatctgcctgccctcgatgtataacga  
tccccagtttggcacaagctgtgagatcactggctttggaaaagagaat  
tctaccgactatctctatccggagcagctgaaaatgactgttgtgaagc  
tgatttcccaccgggagtgctcagcagccccactactacggctctgaagt  
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tgccagggagactcagggggacccctcgtctgttccctccaaggccgca  
tgactttgactggaattgtgagctggggccgtggatgtgccctgaagga  
caagccaggcgtctacacgagagttcacacttcttaccctggatccgc  
agtcacaccaaggaagagaatggcctggccctctga

373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

**FIG. 1P**

agcaatgaacttcatcaagttccatcgaactgtgactgtctaaatggag  
 gaacatgtgtgtccaacaagtaacttctccaacattcactgggtgcaactg  
 cccaaagaaattcggagggcagcactgtgaaatagataagtcaaagccc  
 tcctctcctccagaagaattaaaatttcagtgtggccaaaagactctga  
 ggccccgctttaagattattgggggagaattcaccaccatcgagaacca  
 gccctgggttgcgggccatctacaggaggcaccgggggggctctgtcacc  
 tacgtgtgtggaggcagcctcatcagcccttgctgggtgatcagcgcca  
 cacactgcttcattgattacccaaagaaggaggactacatcgtctacct  
 ggggtcgctcaaggcttaactccaacacgcaaggggagatgaagtttgag  
 gtggaaaacctcatcctacacaaggactacagcgctgacacgcttgctc  
 accacaacgacattgccttgctgaagatccgttccaaggaggggcagggtg  
 tgcgagccatcccggactatacagaccatctgcctgccctcgatgtat  
 aacgatccccagtttgggcacaagctgtgagatcactggctttggaaaag  
 agaattctaccgactatctctatccggagcagctgaaaatgactgttgt  
 gaagctgatttcccaccgggagtggtcagcagccccactactacggctct  
 gaagtcaccaccaaaaatgctatgtgctgctgacccccaatggaaaacag  
 attcctgccagggagactcaggggggacccctcgtctgttccctccaagg  
 ccgcatgactttgactggaattgtgagctggggccgtggatgtgccttg  
 aaggacaagccaggcgtctacacgagagtctcacacttcttaccctgga  
 tccgcagtcacaccaaggaagagaatggcctggccctctga

**FIG. 1Q**

agcaatgaacttcatcaagttccatcgaactgtgactgtctaaatggag  
 gaacatgtgtgtccaacaagtaacttctccaacattcactgggtgcaactg  
 cccaaagaaattcggagggcagcactgtgaaatagataagtcaaaaacc  
 tgctatgaggggaatgggtcacttttaccgaggaaaggccagcactgaca  
 ccatggggccggccctgcctgccctggaactctgccactgtccttcagca  
 aacgtaccatgcccacagatctgatgctcttcagctgggcctggggaaa  
 cataattactgcaggaaccagacaaccggaggcgaccctgggtgctatg  
 tgcaggtgggcctaaagccgcttggtccaagagtgcattggtgcatgactg  
 cgcagatggaaaaaagccctcctctcctccagaagaa

**FIG. 1R**

aaaacctgctatgaggggaatgggtcacttttaccgaggaaaggccagca  
 ctgacaccatggggccggccctgcctgccctggaactctgccactgtcct  
 tcagcaaacgtaccatgcccacagatctgatgctcttcagctgggcctg  
 gggaacataattactgcaggaaccagacaaccggaggcgaccctgggt  
 gctatgtgcaggtgggcctaaagccgcttggtccaagagtgcattggtgca  
 tgactgcgcagatggaaaaaagccctcctctcctccagaagaa

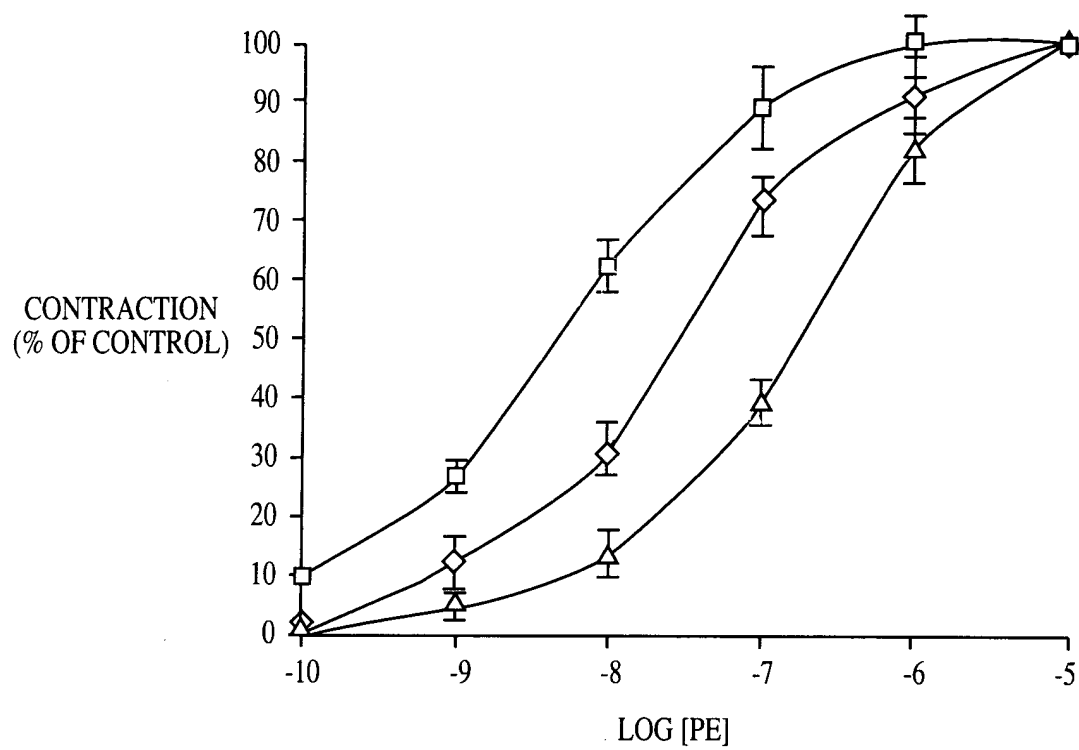


FIG. 2

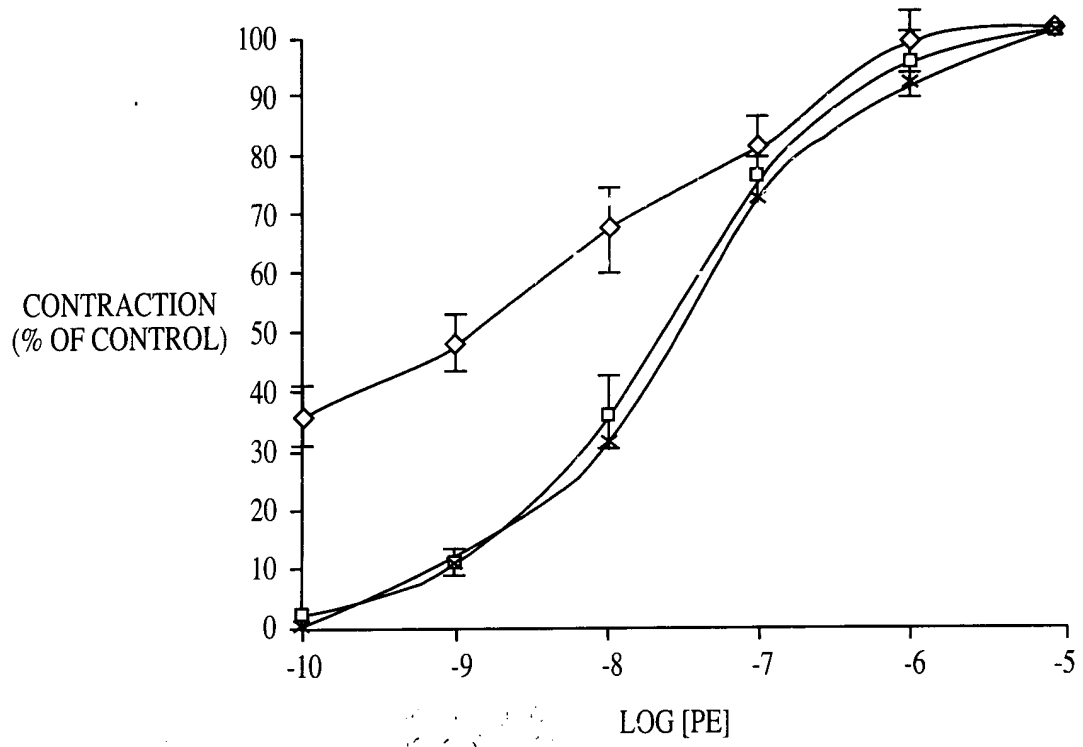


FIG. 3



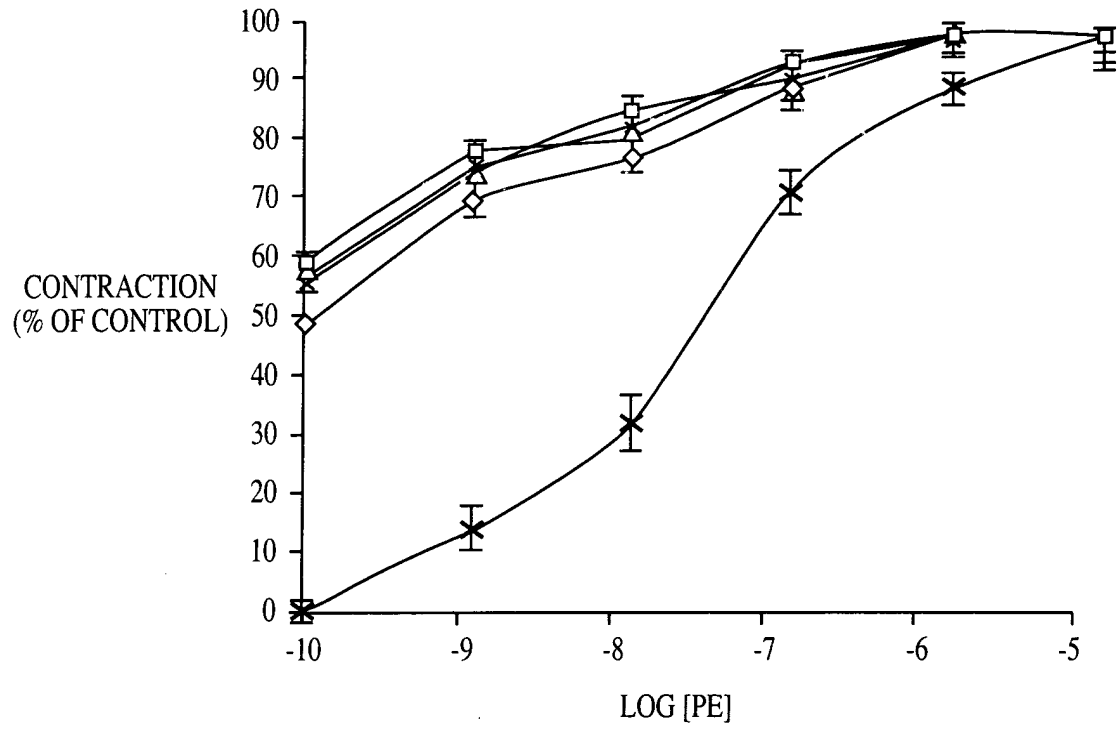


FIG. 4

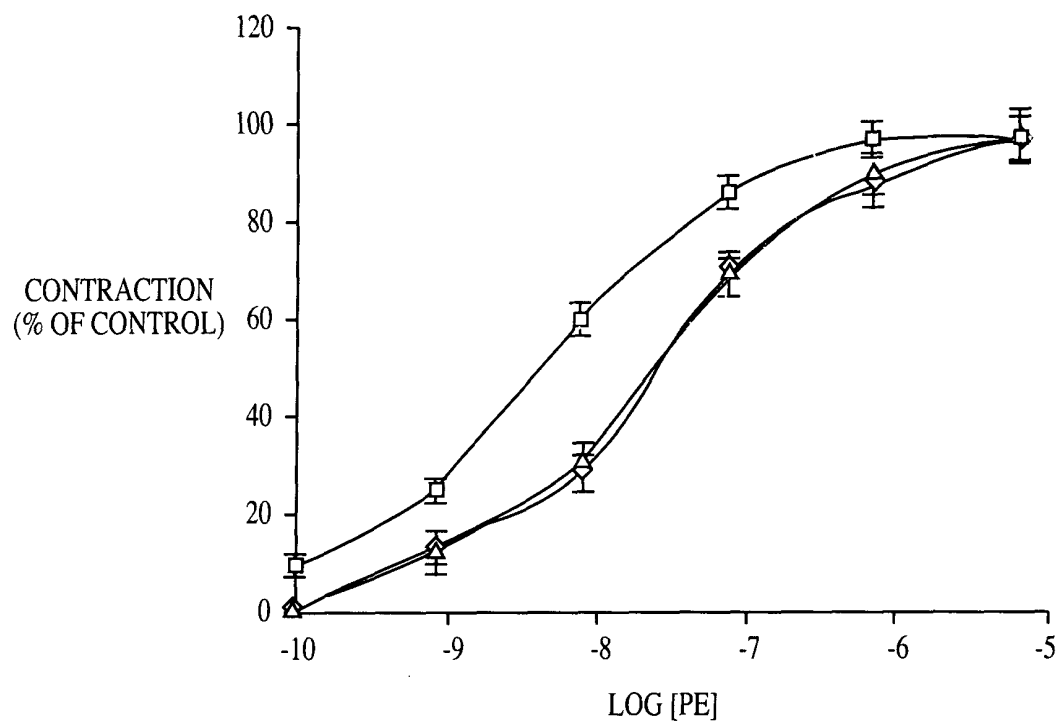


FIG. 5A

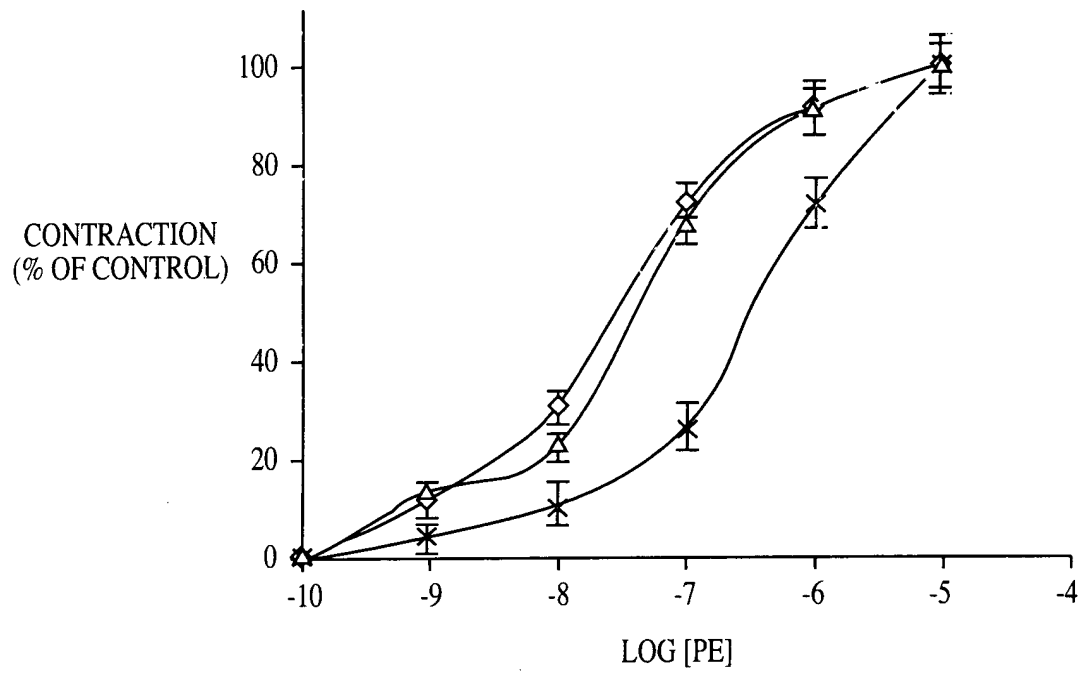


FIG. 5B

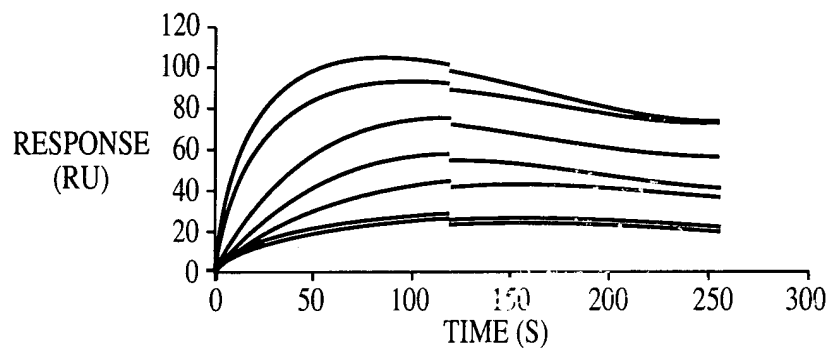


FIG. 6A

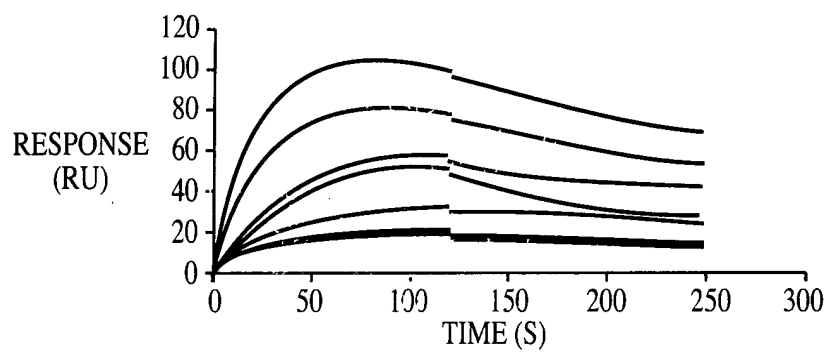


FIG. 6B

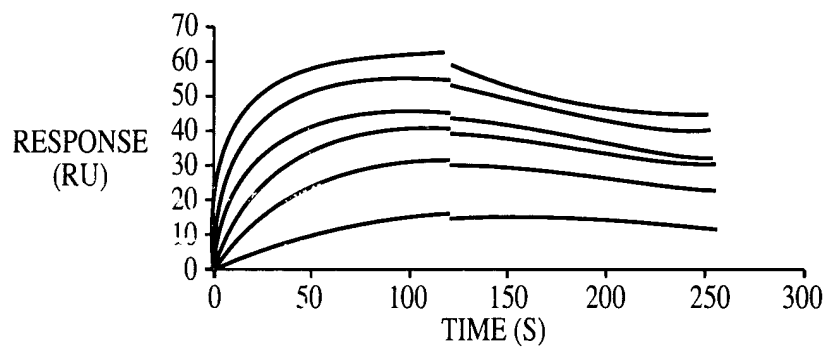


FIG. 6C



FIG. 7

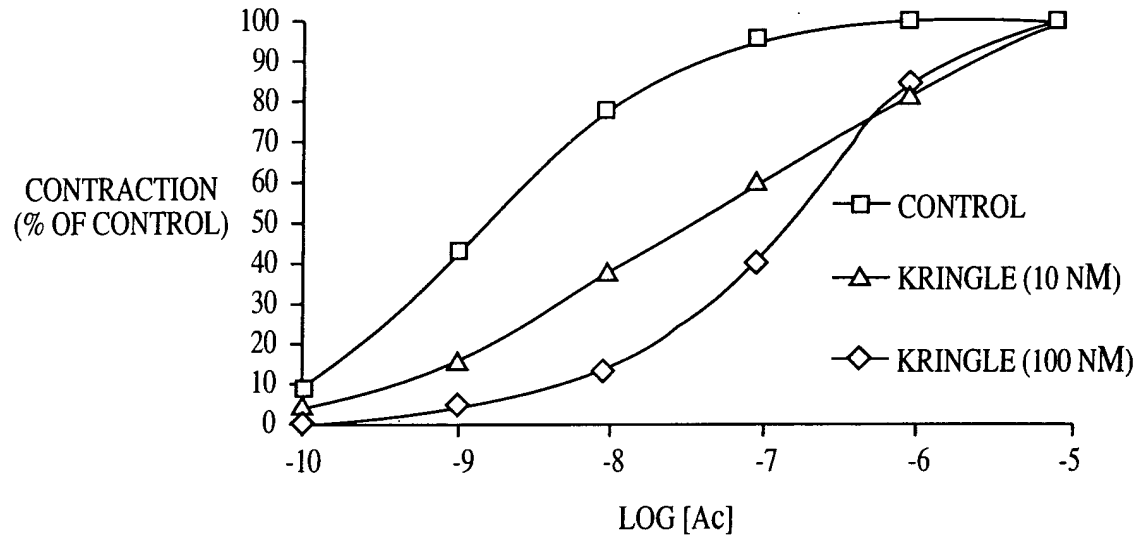


FIG. 8